

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12N 15/85, 15/86, A61K 31/70, 48/00	A1	(11) International Publication Number: WO 98/24923 (43) International Publication Date: 11 June 1998 (11.06.98)
(21) International Application Number: PCT/US97/22198 (22) International Filing Date: 2 December 1997 (02.12.97) (30) Priority Data: 60/032,277 2 December 1996 (02.12.96) US (71) Applicant (for all designated States except US): WAKE FOREST UNIVERSITY [US/US]; Medical Center Boulevard, Winston-Salem, NC 27157-1023 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): CHEN, Si-Yi [CN/US]; 471 Kingsmill Drive, Advance, NC 27006 (US). YANG, An-Gang [CN/US]; 304 Ardmore Terrace, Winston-Salem, NC 27157 (US). BAI, Xuefan [CN/CN]; Apartment 504, 10 Xinglin, Xian (CN). CHEN, Ji-Dai [CN/US]; 1902 Quen St. E-2, Winston-Salem, NC 27103 (US). (74) Agent: CORDER, Timothy, S.; Arnold, White & Durkee, P.O. Box 4433, Houston, TX 77210 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>

(54) Title: INACTIVATION OF HIV CO-RECEPTORS AS THERAPY FOR HIV INFECTION**(57) Abstract**

The present invention provides compositions and methods for the treatment and/or prevention of HIV-1 infection. In particular, the present invention employs novel compositions and methods for preventing the cell surface expression of a co-receptor necessary for the binding of HIV to its target cells.